

	Test	Method	Sample Size	Grain Size
			[g]	[mm]
bentonite characterization	Swelling index	(I.B.O.FP-03/2003)		
	water adsorption, Erism Nefl - test	(I.B.O.FP-02/2003)		
	Methylene blue test	(VDG P.35, I.B.O..02/2003, I.B.O..03/2003)		
	OCMA Test, viscosity	APISpec 13A/Iso 13500)		
	moisture content			
viscosity	Haake Rheostress 600			
	Rheowin VT 550 capillary viscosimeter for suspensions			
permanent available SEPARATION equipment				
density separation	+1mm	laboratory drum tests up to 50 l heavy medium cyclon testing, fig. Siebtechnik	20.000 g 50.000 g	- 30 mm + 0,3 - 15 mm - 16 mm
	-1 mm	lab shaking tables spirals	10.000 g	- 1 mm +0,04 mm - 2 mm +0,2 mm
Magnetic separation	LIMS	lab drum separator, adjustable field via coil current 0,005 - 0,06 T	some 10.000	- 5 mm
		lab drum separator, SALA TU 1488/0 200 mm drum diameter	some 10.000	- 1 mm
		induction roll separators; Carpco MfH (13) 111-5; 0,1 - 1 T	some 10.000	- 2 mm + 0,1 mm
		induction roll separators WedAG-1-150, 0,1 - 1,4 T	some 10.000	- 2 mm + 0,1 mm
		permanent magnetic roll separator, roll diameter: 0,08 m; width: 0,25 m IFE KP 250-1, 0,7 T	some 10.000	- 8 mm + 0,1 mm
		permanent magnetic drum separator; 0,6 x 0,6 m, 0,35 T		- 20 mm + 0,1 mm
		matrix separator	depends on matrix type	
		research dry magnetic matrix separator		
		lab scale roll separator, Carpco HP-167-M	dry	- 20 kV
	electrostatic separation	EMS 500, free fall separator, climate chamber	Hamos	dry
flotation	Denver D-1 lab cell, reagent testing	elaboration of reagent system in 1 - 3 l cells		
	lab column cell; D = 80 mm; L = 2,5 m			
	Zeta potential measurement	streaming potential; EKA, Anton Paar; electrophoresis		

Table 4: Standard tests III: Bentonite testing and separation tests